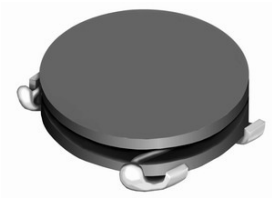
SMD Power Inductor
CDH38D09

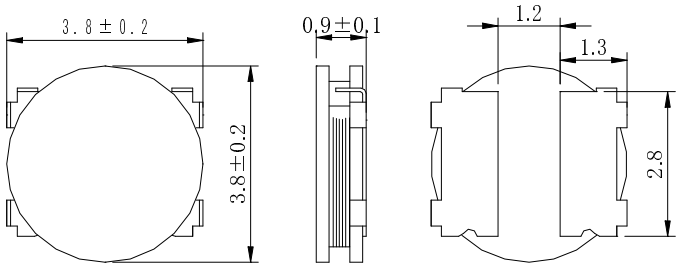
RoHS

Halogen Free

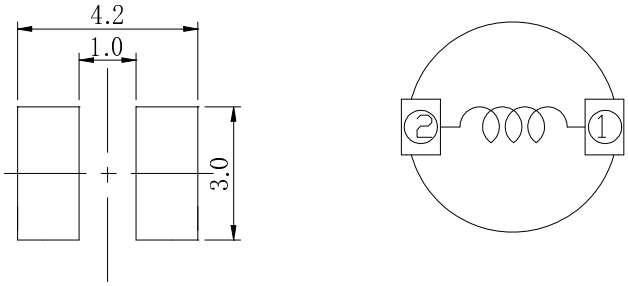


Description
- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 4.0 × 4.0 × 1.0mm Max.
- Product weight: 42mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Dimension - [mm]



Land pattern and Schematics - [mm]



Environmental Data
- Operating temperature range: -40℃～+105℃ (including coil's self temperature rise)
- Storage temperature range: -40℃～+105℃
- Solder reflow temperature: 260 ℃ peak.

Packaging
- Carrier tape and reel packaging.
- 7.0"diameter reel
- 1000pcs per reel

Applications
- Ideally used in Mobilephone,PDA,MP3,DSC/ DVC,HDD etc as DC-DC converter inductors.

Electrical Characteristics

Part Name	Stamp	Inductance (μH) [within] ※1	D.C.R.(Ω) Max. (Typ.) (at 20℃)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20℃	at105℃	
CDH38D09NP-1R2MC	1R2	1.2±20%	0.14(0.11)	1.90	1.60	1.35
CDH38D09NP-1R5MC	1R5	1.5±20%	0.16(0.13)	1.70	1.40	1.25
CDH38D09NP-2R2MC	2R2	2.2±20%	0.19(0.15)	1.50	1.25	1.15
CDH38D09NP-2R7MC	2R7	2.7±20%	0.21(0.17)	1.35	1.15	1.10
CDH38D09NP-3R3MC	3R3	3.3±20%	0.24(0.19)	1.25	1.00	1.00
CDH38D09NP-4R7MC	4R7	4.7±20%	0.30(0.24)	1.10	0.85	0.95
CDH38D09NP-6R8MC	6R8	6.8±20%	0.39(0.31)	0.90	0.72	0.85
CDH38D09NP-8R2MC	8R2	8.2±20%	0.50(0.40)	0.80	0.65	0.75
CDH38D09NP-100MC	100	10.0±20%	0.58(0.47)	0.7	0.60	0.70
CDH38D09NP-150MC	150	15.0±20%	0.87(0.69)	0.60	0.50	0.55
CDH38D09NP-220MC	220	22.0±20%	1.14(0.91)	0.50	0.40	0.45

※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of it's nominal value.

※3. Temperature rise current: The value of D.C. current when the temperature rise is △t=40℃(Ta=20℃).

Revised: 10-Dec-13

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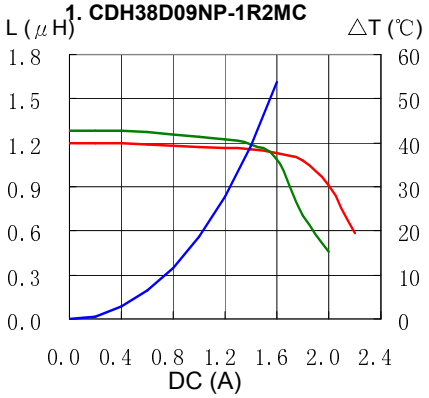
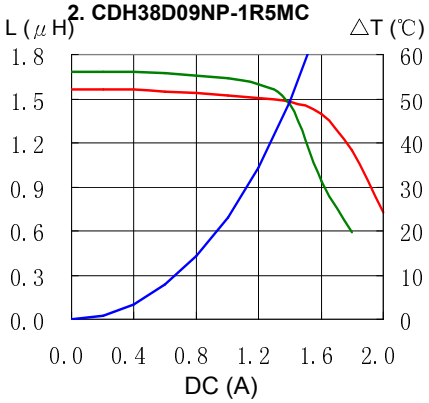
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

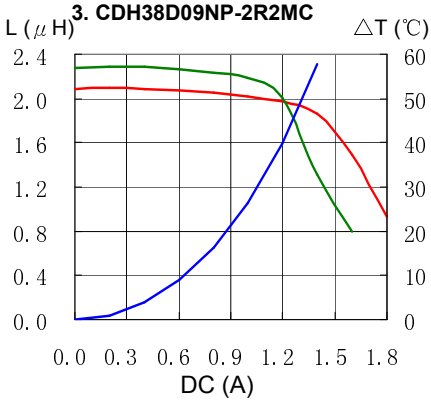
1. CDH38D09NP-1R2MC



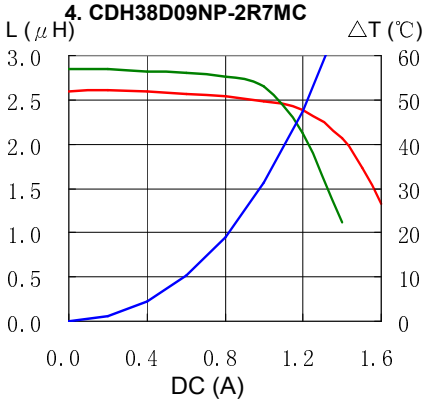
2. CDH38D09NP-1R5MC



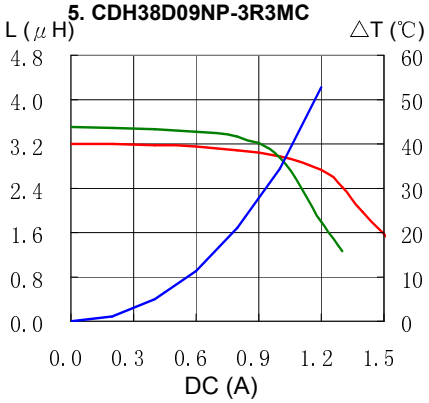
3. CDH38D09NP-2R2MC



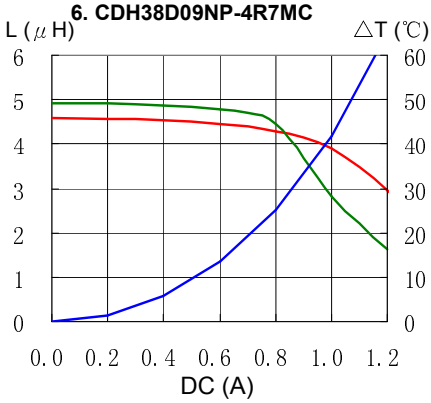
4. CDH38D09NP-2R7MC



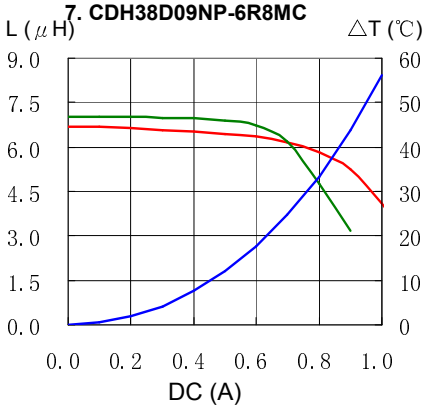
5. CDH38D09NP-3R3MC



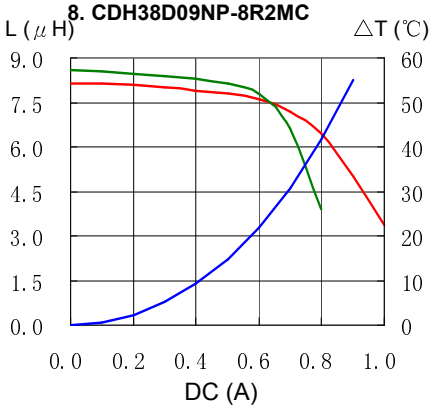
6. CDH38D09NP-4R7MC



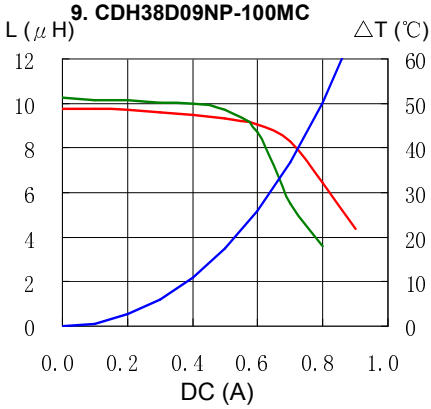
7. CDH38D09NP-6R8MC



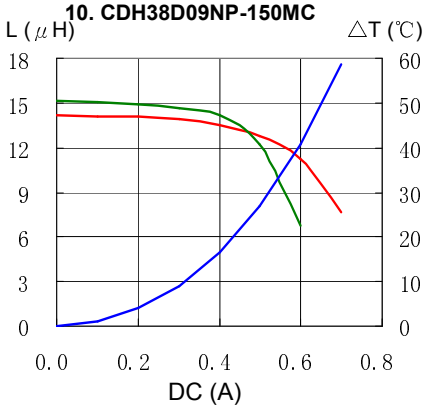
8. CDH38D09NP-8R2MC



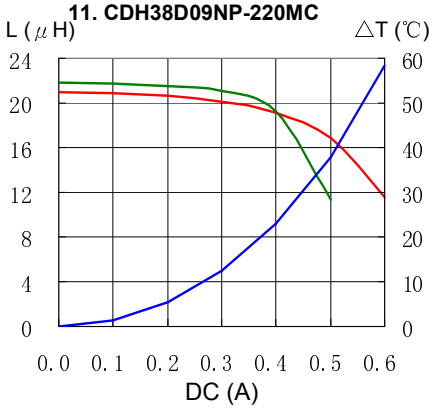
9. CDH38D09NP-100MC



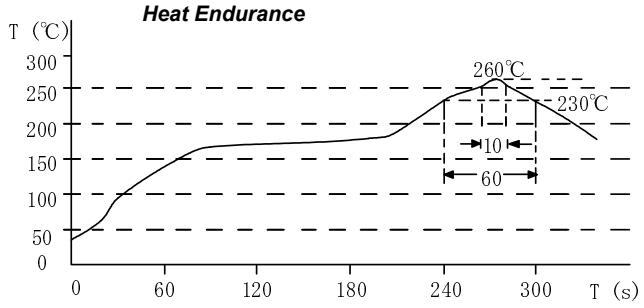
10. CDH38D09NP-150MC

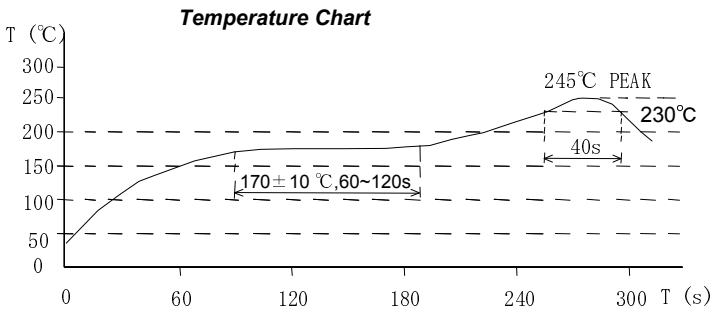


11. CDH38D09NP-220MC



Solder Reflow Condition





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